



OWL 500

Single-Channel Process Signal - DC Current Data Logger

The OWL 500 data logger is a rugged and versatile data logger that records the popular 4-20mA process signal with ease and convenience. This logger is ideal for monitoring (through commercially available transducers) a wide variety of measurement parameters. All DC current process signals can be converted into custom engineering units using the simple equation editor in ACR's TrendReader® 2 Software.

APPLICATIONS

Monitoring pressure, wind speed, battery voltage, flow, tank levels, etc.

GENERAL SPECIFICATIONS

Size:	60mm x 48mm x 19mm (2.4" x 1.9" x 0.7")
Weight (Plastic Version):	54 g (1.9 oz)
Case Material (Plastic Version):	Noryl® Plastic
Battery:	3.6 volt Lithium
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous (First-in First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds</i>
Operating Limits:	-40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	TrendReader® 2 (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 bit)
Communication:	Optical data transfer; data can be transmitted through glass, water or any transparent medium up to 25mm (1") away.
Memory Size:	32 KB (capable of storing up to 32,767 readings)
Sampling Rates:	User selectable rates from 5 per second to once every 12 hours
Number of Channels:	One external DC voltage channel
Input Range:	0 to 38.4 Volts DC maximum (32 software selectable ranges available from 0-121 mV to 0-39 V)
Input Impedance:	Greater than 100K Ohm
Logger Accuracy:	± 1% of full scale

